



01112A

[2×40]

3. Short Answer Question (any 8 out of 9) :

- Define Blood pressure. State various mechanisms for regulation of blood pressure. Describe baroreceptor reflex.
- A 40 year old male complains of nausea, vomiting, anorexia & lethargy. The renal clearance test shows:
 - Urea excreted in urine in 1 min = 20mg/dl
 - Plasma concentration of urea = 30mg/dl
 - Urine flow rate = 1 ml/min
 - Define clearance.
 - Calculate & Comment on urea clearance from above given data.
 - Name the exogenous substance used as gold standard for measurement of GFR & state its characteristics.
- Describe various lung volumes & capacities with help of diagram.
- Compare & Contrast the cortical and juxtamedullary nephrons.
- State stages of deglutition. Describe the Pharyngeal stage of deglutition.
- A 30 year old male met with road accident and was brought to emergency unit with severe bleeding. His pulse was thready and his skin felt cold and clammy. He was attended immediately with IV line.
 - Classify Shock
 - What are other features of haemorrhagic shock?
 - Describe the compensatory mechanisms in non-progressive stage of shock.
- Give flow chart of erythropoiesis. Discuss the special maturation factors necessary for erythropoiesis.
- Define Primary active transport. Describe sodium potassium ATPase pump.
- Discuss the types of Doctor-Patient relationship.

4. Long Answer Questions (any 2 out of 3) :

[2×10=20]

- Define Immunity. What are the types of immunity? Discuss in detail the mechanism of cellular immunity.
- Define Cardiac cycle & give its duration. Describe the mechanical events occurring during cardiac cycle. Illustrate pressure volume changes with help diagram.
- What are the modes of oxygen transport in blood? Describe the Oxygen Haemoglobin dissociation curve with help of diagram. Add a note on factors causing the shifts in curve.

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